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		*****	*	*	**	**	*****	*	*****	**
Plant	At	FYKVEAIVRP	WRIQQVSSAL	LKIGIRGVTV	SDVRGFGAQG					
	Ric	FYKVEAILRP	WRVSQVSSAL	LKIGIRGVTV	SDVRGFGAQG					
	Kp	MKKIDAIKP	FKLDDVREAL	AEVGITGMTV	TEVKGFGROK					
	Ec	MKKIDAIKP	FKLDDVREAL	AEVGITGMTV	TEVKGFGROK					
	RL	MKKIEAIKP	FKLDEV-SP	SGVGLOGITV	TEAKGFGROK					
Bacteria	Bj	MKKIEAIKP	FKLDEV-SL	SGVGLOGITV	TEAKGFGROK					
	Az	MKKIEAIKP	FKLDEVKEAL	HEVGIGKITV	TEAKGFGROK					
	Rc	MKKVEAIKP	FKLDEVKEAL	QEAGIQGLSV	IEVKGFGROK					
	Sy	MKKIEAIIRP	FKLDEVKIAL	VNAGIVGMTV	SEVRGFGROK					
Archaeobacteria	Mt1	MKMIKAIVRP	DKVDDIVDSL	ENAGYPAFTK	INSVGRGKQG					
	Mt2	MKEVIAIIRP	NTVSKTVKAL	DVVGFPATM	AECFGRGKQK					
		1								
			I							
		***	***	*	*	*	**	*	*****	**
Plant	At	GSTERHGGSE	FSEDKFVAKV	KMEIVVKDQ	VESVINTIIE					
	Ric	GSTERQGGSE	FSEDKFVAKV	KMEIVVSKDQ	VEDVIEKIIE					
	Kp	GHTELYRGAE	YMVD-FLPKV	KIEIVTDDI	VDTCDVTIIR					
	Ec	GHTELYRGAE	YMVD-FLPKV	KIEIVVPDDI	VDTCDVTIIR					
	RL	GHTELYRGAE	YVVD-FLPKV	KVEVVLADEN	AEAVIEAIRK					
Bacteria	Bj	GHTDLTYGAE	YIVD-FLPKV	KIEIVIGDDL	VERAIDAIIR					
	Az	GHTELYRGAE	YVVD-FLPKV	KIEVMEDSL	VERAIEAIQQ					
	Rc	GHTELYRGAE	YVVD-FLPKV	KIEMVLPDEM	VDIAIEAIVG					
	Sy	GQTERYRGSE	YTVE-FLQKL	KLEIVVEDAQ	VDTVIDKIIV					
Archaeobacteria	Mt1	GLKVGE---I	FY-D-ELPKT	ILLIAVNDE	VDEVVGLIJS					
	Mt2	GYEEGEKEGR	FIK--YIPKR	LISIVVDDAD	VPLVVGIIISK					
		51								
		II								
		*****	*****	*	*****	**	*			
Plant	At	GARTGEIGDG	KIFVLPVSDV	IRVRTGERGE	KAE					
	Ric	EARTGEIGDG	KIFLLPVSDV	IRVRTGERGD	KAE					
	Kp	TAQTGKIGDG	KIFVFDVARV	IRIRTGEEDD	AAI					
	Ec	TAQTGKIGDG	KIFVFDVARV	IRIRTGEEDD	AAI					
	RL	AAQTGRIGDG	KIFVSNVEEV	IRIRTGETGI	DAI					
Bacteria	Bj	AAQTGRIGDG	KIFVSNIEEA	IRIRTGESGL	DAI					
	Az	AAHTGRIGDG	KIFVTPVEEV	VRIRTGEKGG	DAI					
	Rc	AARTEKIGDG	KIFVSSIEQA	IRIRTGETGE	DAV					
	Sy	AARTGEIGDG	KIFVSPVDQT	IRIRTGEKNA	DAI					
Archaeobacteria	Mt1	SASTGNFGDG	KIFIQPIIEA	YTIRTGETGI	---					
	Mt2	VNRTGSFGDG	RIFVLPVEEA	IRVRTGETGE	IAI					

FIG. 1A

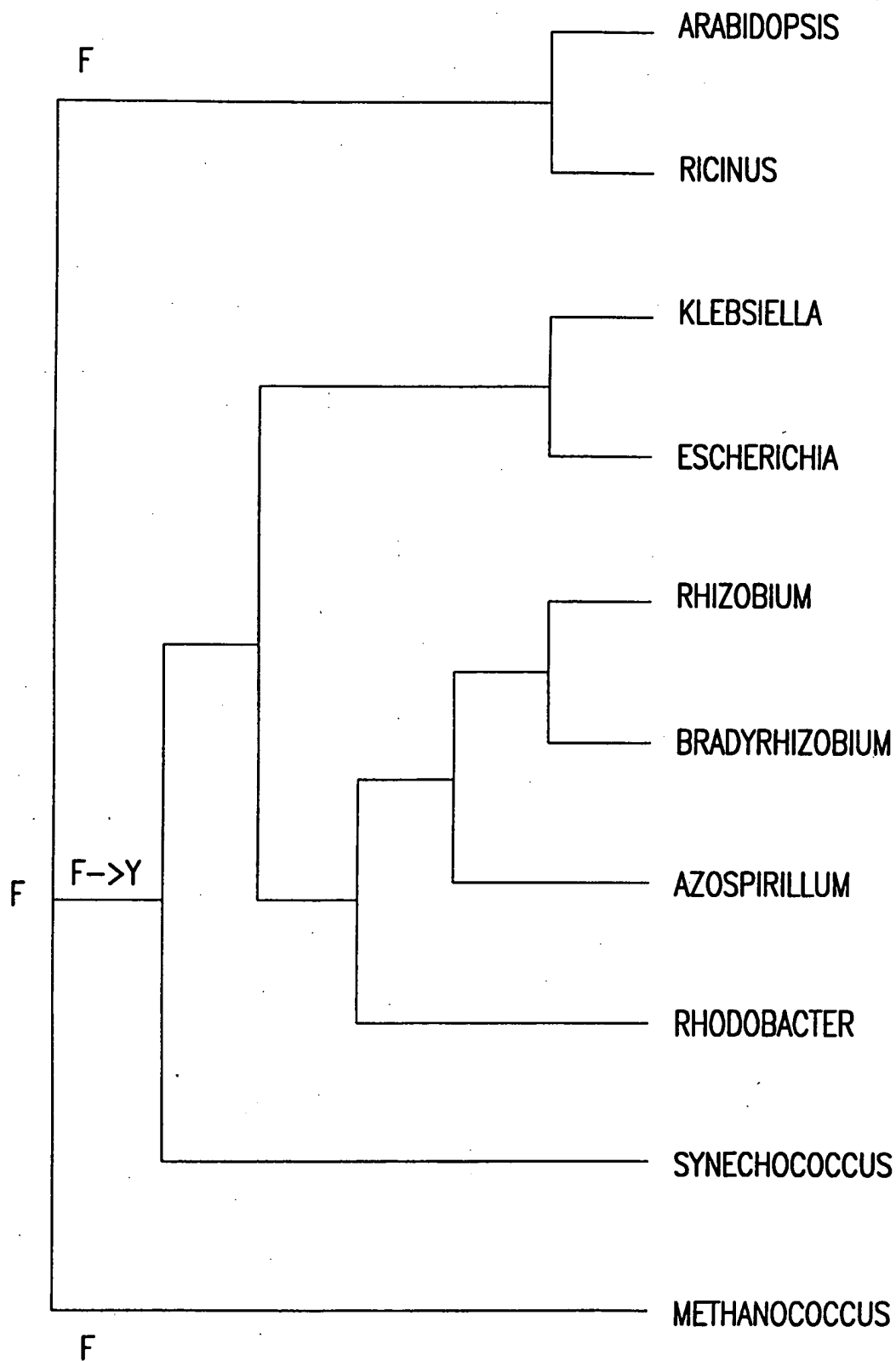


FIG. 1B

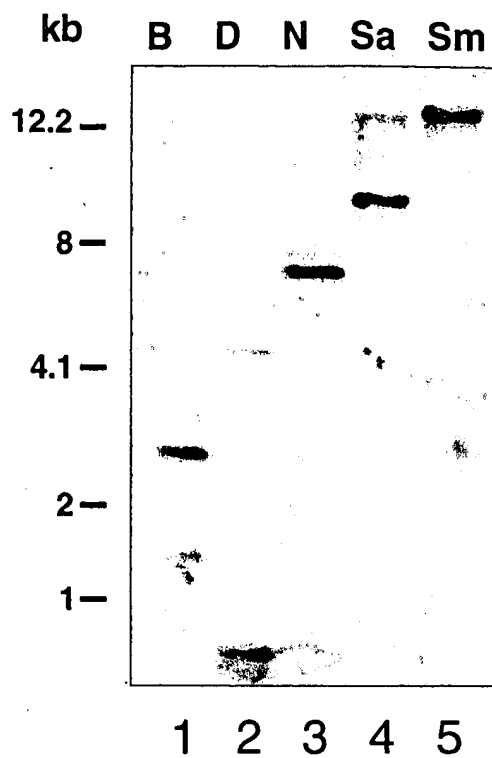


FIG.2

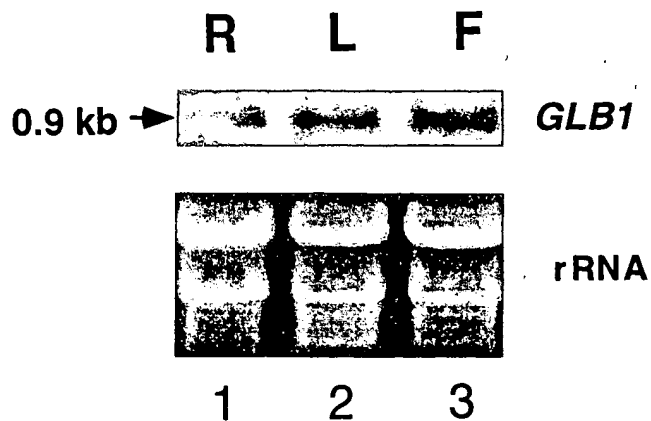


FIG.3

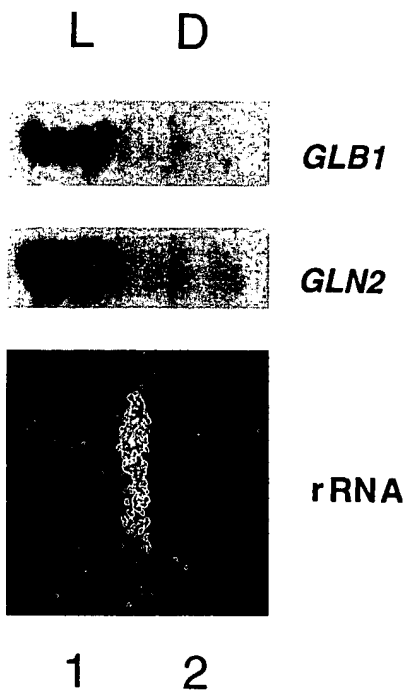


FIG.4A

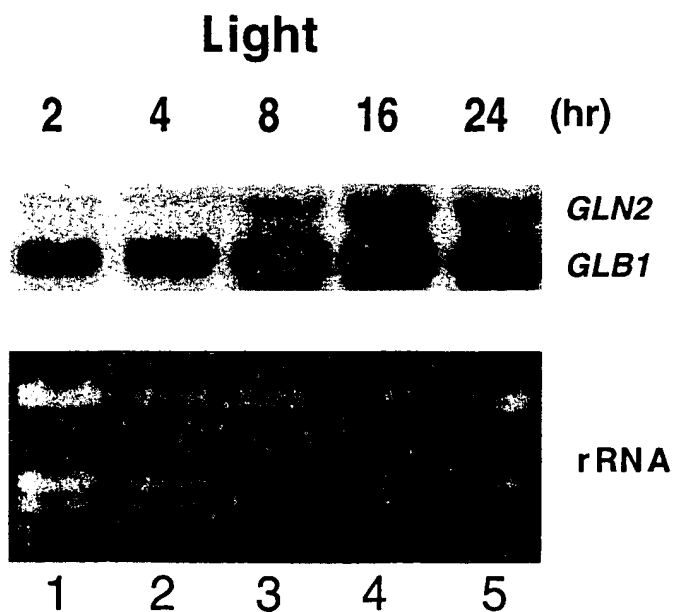


FIG.4B

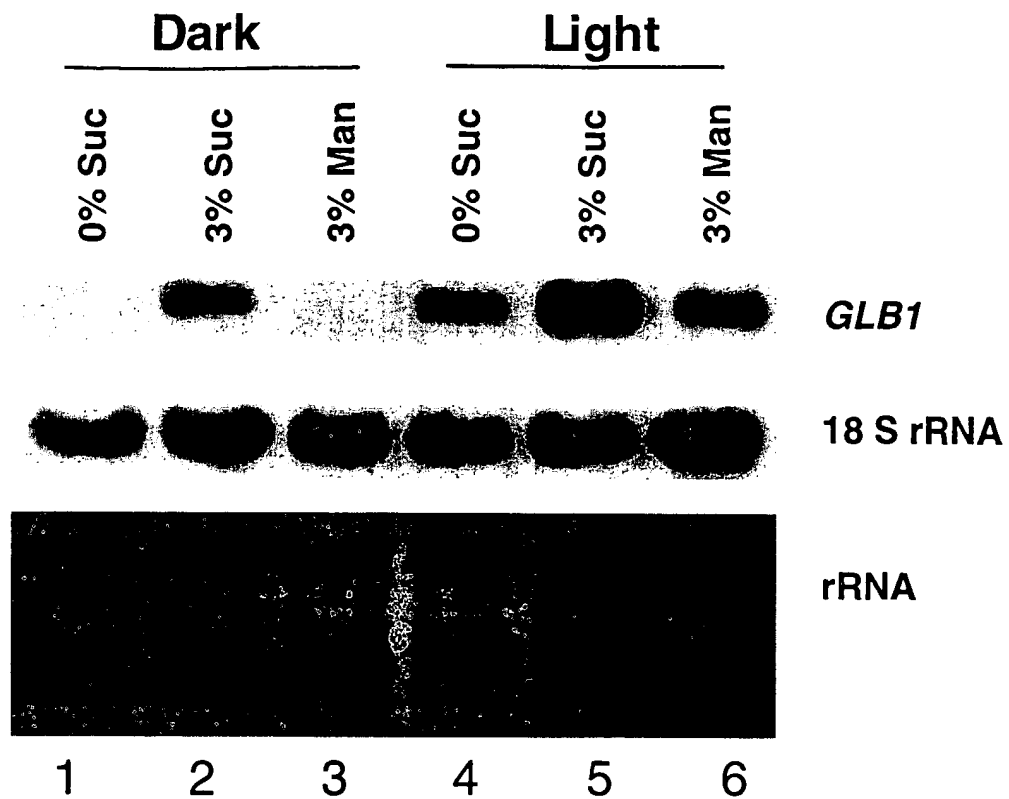


FIG.5



Docket No.: 5914-089-999
Serial No.: 09/756,541
Inventor(s): Coruzzi et al.
Title: PLANT NITROGEN REGULATORY
P-PII POLYPEPTIDES

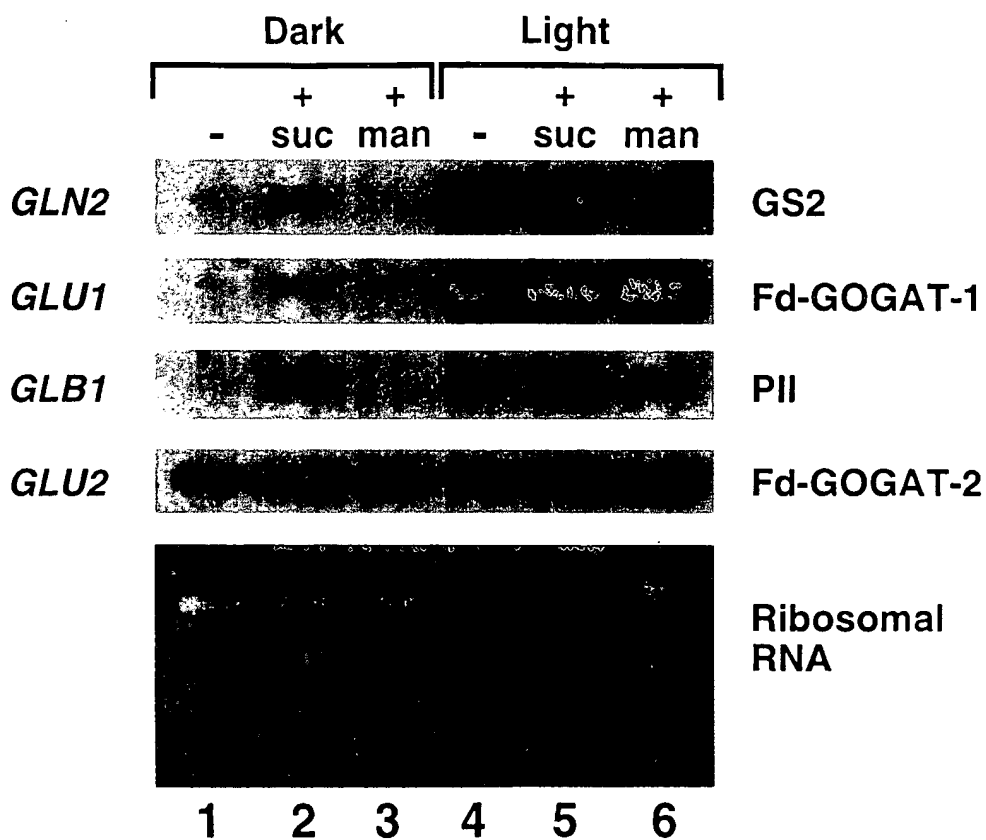


FIG.6

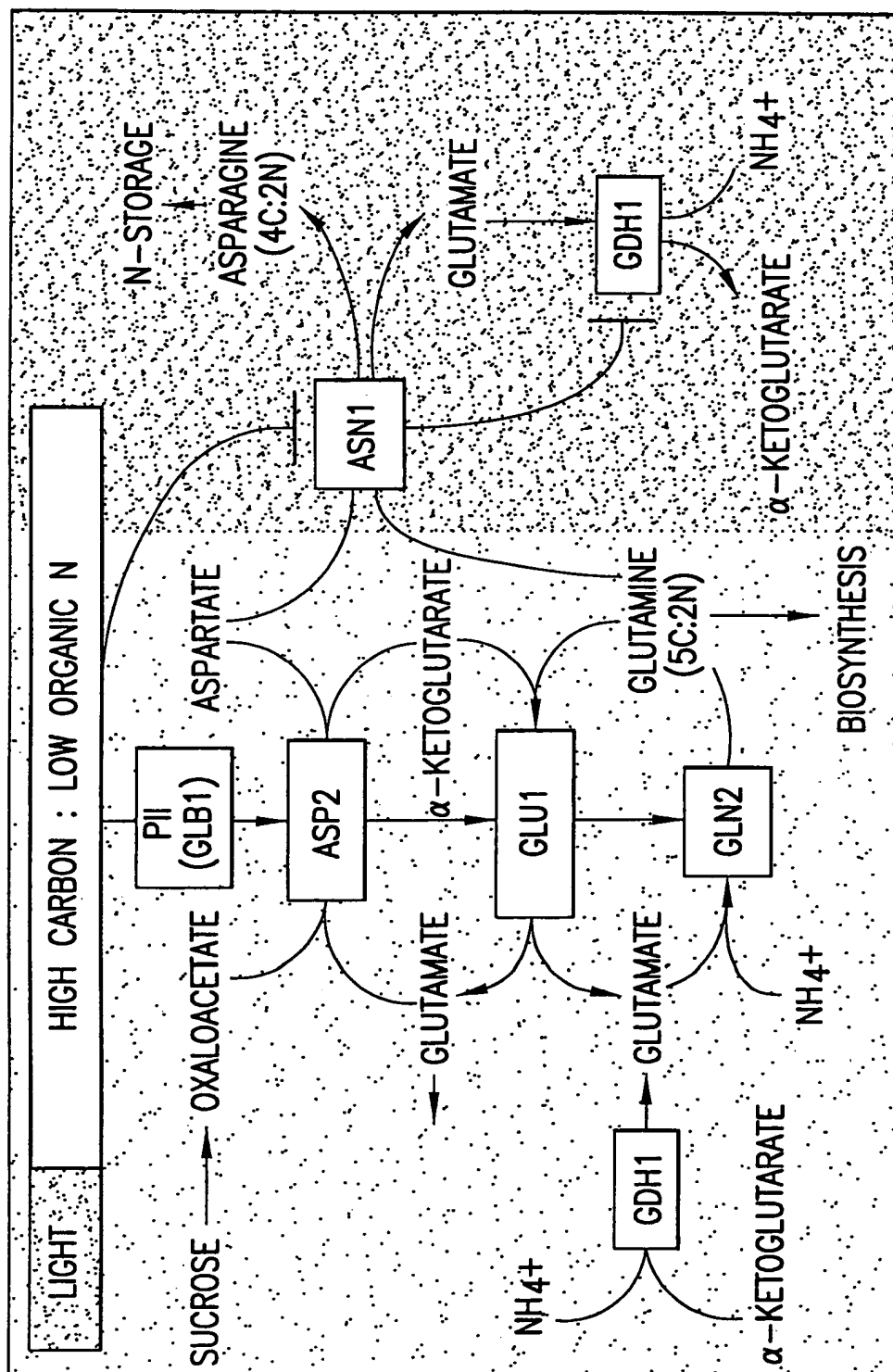


FIG. 7



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P-PII POLYPEPTIDES

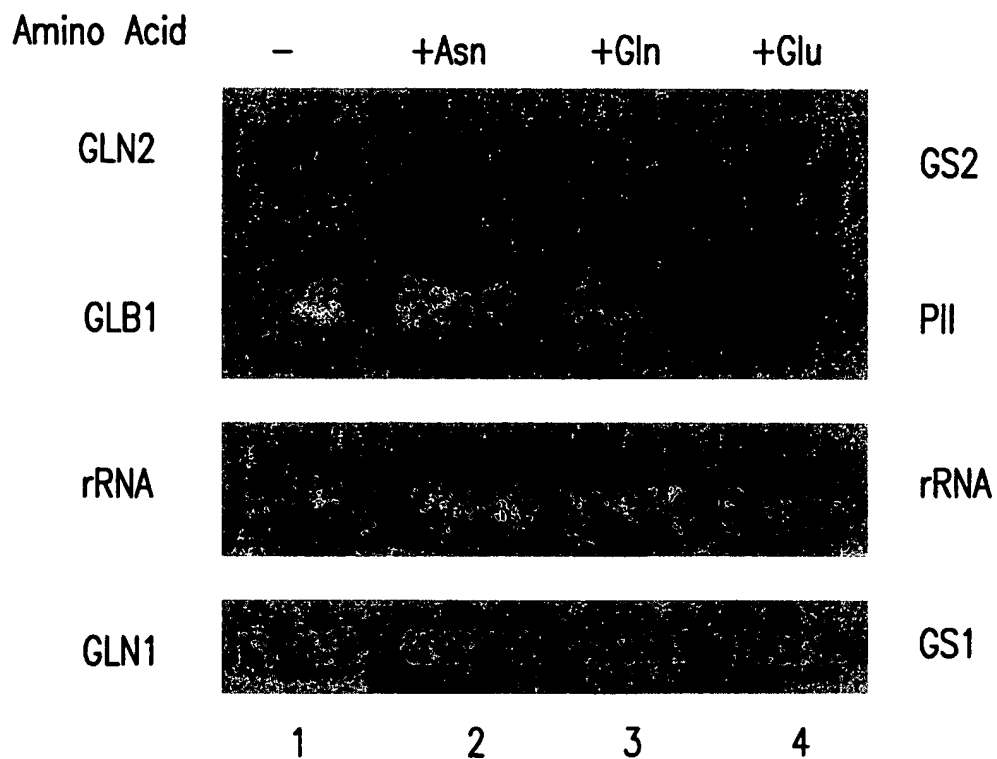


FIG.8



FIG. 9

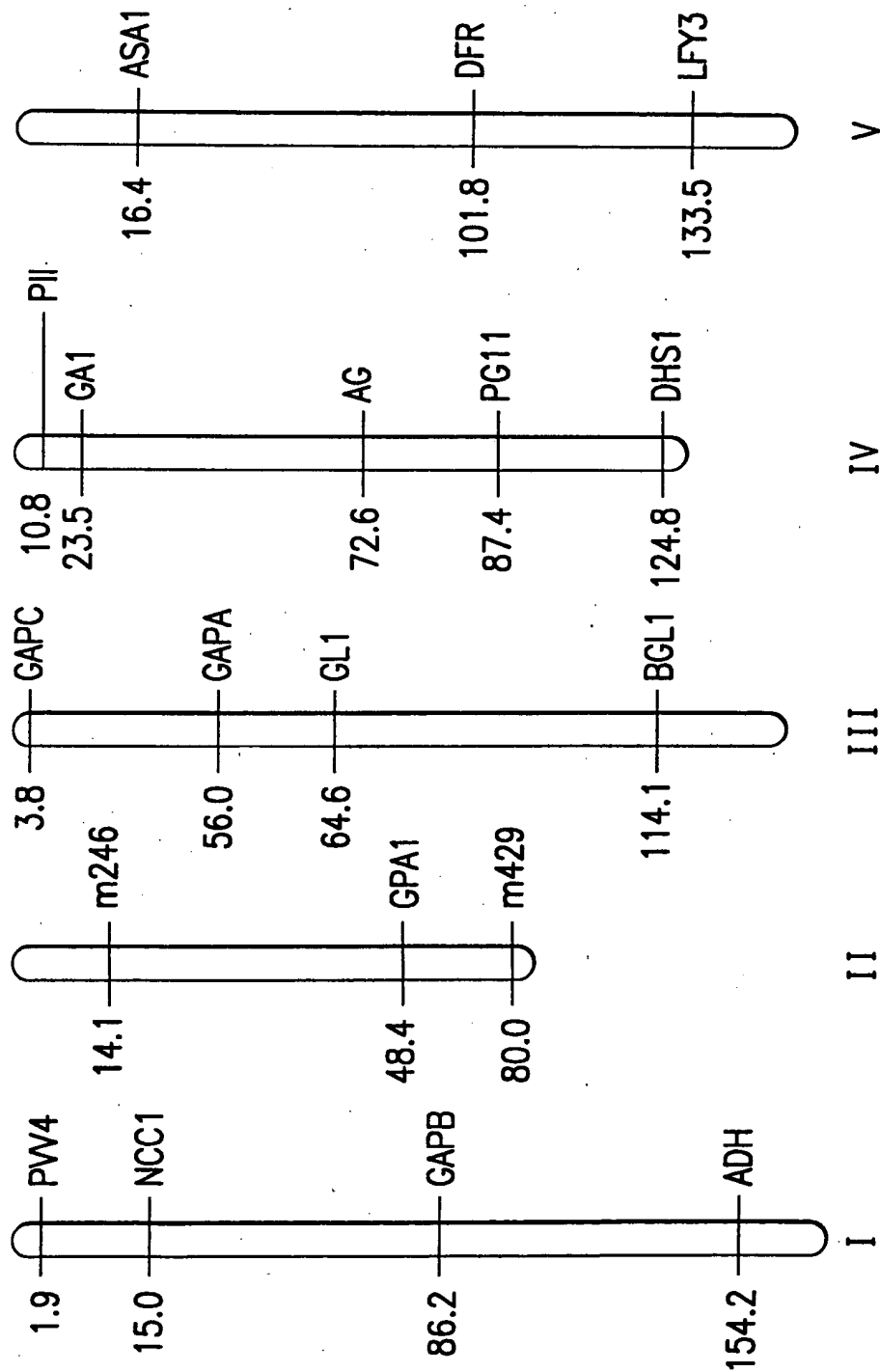
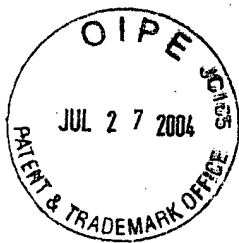


FIG.10

#1	#2	#3	#4
A	T	1	2
1	2	3	4
2	3	4	1
3	4	1	2
4	1	2	3
1	2	3	4

#5	#6	#7	#8
A	T	1	2
1	2	3	4
2	3	4	1
3	4	1	2
4	1	2	3
1	2	3	4

#9	#10
A	T
T	1
1	2
2	3
3	4
4	1

FIG.11



```
1  ctgaaagttg tgtaaataaa aaaactagaa tcatggcggc gtcaatgacg
51  aaacccatct caataacttc tctcggtttc tattctgacg gaaagaacat
101 tgctttctct gattgcattt cgatttggtc tggattcaga cattcccgac
151 catcttgctt cgatttggtc acaaagtcac cgagtaataa cagtcgtggt
201 ttacctgtcg ttagtgccca aatatcttct gattatattc cagactcgaa
251 attttacaag gtggaagcaa ttgtcagacc atggagaatc cagcaagttt
301 catcggcttt actgaaaatc gggattcgag gtgttactgt ttctgatgtg
351 agagggtttg gtgcacaagg aggttctacc gagagacacg gtggctctga
401 gttctcggaa gacaaatttg ttgctaaagt taagatggaa atcgttggtt
451 agaaagacca agtggaatct gtaatcaaca caataattga aggagcaagg
501 acaggagaga ttggtgatgg caagattttt gttttgcctg tgtcagatgt
551 cataagagtt aggacaggtg agcgtgggga gaaagcagag aagatgactg
601 gtgatatgct ttcaccgtct taggaacaaa cagagctcaa gaatggtttt
651 tttttttttc atttcggtct ctagattctg cgaataataa tgaatggagt
701 ctgtgttttg tttcatgttg aatcgatcaa gatgtgtttt taactgtaca
751 tgaattatgc agaaacatct gtcctgggtc tcagacatcg aaactctggt
801 cctaataaaa aaaaaaa
```

FIG.12



1 GCGGTGTCGG CCGCTCTAGA ACTAGTGGAT CCCCCGGGCT GCAGGAATTC
51 GGCACGAGGC TACTGCGAAA CTGGGCTTGC TCACTCCTCT TCATTCTAAT
101 AACATCAAGA AAGAATTCCC TGTTTTTGAT TTCAGTTTGT TTTGTCCAGA
151 GCTTAGACAT TCTCGGTTTT CTCAC TTAA CACCGCGGTC AAGCGCGTAA
201 GATATGCCCC CGTCGTTCCCT GTGATTAATG CCCAAAGCTC GCCTGACTAC
251 ATTCCTGATG CTAAATTCTA CAAAGTGGAA GCAATTCTCA GGCCCTGGCG
301 AGTCTCGCAA GTTTCCTCGG CTTTGCTAAA AATTGGTATT CGAGGTGTTA
351 CTGTTTCTGA TGTTGAGGT TTTGGTGCTC AAGGTGGTTC AACTGAGAGG
401 CAGGGCGGCT CAGAATTTTC TGAAGACAAG TTTGTTGCTA AAGTTAAGAT
451 GGAGATCGTG GTTAGCAAAG ACCAGGTTGA GGATGTTATA GAAAAAATCA
501 TTGAGGAGGC AAGAACTGGA GAGATTGGAG ACGGCAAGAT TTTCTTGCTG
551 CCTGTTTCAG ATGTAATAAG AGTCCGCACT GGTGAGCGGG GTGATAAGGC
601 TGAGAGGATG ACAGGAGGGC GATCTGACAT GAGTACTTCT GCTTGACTGC
651 TGTGACCAGC AATATAGCAT TCAGGACTAA CTGTCCTTTG AGAAAGCCCC
701 GCCCTTATTA GCCATTATCC AGTATAGCTT GATAATTTGA ATTTTTTGTT
751 TTCTTAACTA AAGAAACAAA GATCTTTTCA TTATCCTGTT GATGATAATT
801 GAAAACGGAA GGATCGCGAA TTTGTTCAAG TGCTTGCAAG ATAAATAACA
851 AGAAGAGGAG TAATGTTAAC AAAAAAAAAA AAAAAAAAAA ACTCGAG

FIG.13